

NAKHAPETYAN, L. A.

Isomerization of isopropenyl vinyl ether on silica gel

NAKhape Tyan, L. A.

1
7
" Synthesis of 2-cyclobutylbutane and 3-cyclobutylpentane.
B. A. Kazanskii, M. Yu. Lukina, and L. A. Nakhapetyan
(N. D. Zelinskii Inst. Org. Chem., Moscow) *Izv. Akad.
Nauk S.S.S.R., Khim. Nauk* 1957, 692 6. -- Passage
of 64 g. cyclobutanecarboxylic acid (I) and 1 vol. AcOH at
410° over fresh MnO gave 63.2% of cyclobutyl ketone, b_m
134-6°, n_D^{20} 1.4320, d_4^{20} 0.9013. This with EtMgBr gave
3-cyclobutylpentan-2-ol, b_m 164-6°, 1.4520.
0.8576, which heated with a little H₂SO₄ in a distn. app gave
80.4% olefin, b_m 110-32°, sepd. into 3-5° fractions which
hydrogenated over Pt-C yielded the same product. 2-cyclo-
butylbutane, b_m 123°, 1.4207, 0.7612. Azotropic esterifi-
cation of I with EtOH in C₆H₆ with H₂SO₄ catalyst gave
97% Et ester, b_m 147.5-9°, 1.4263, 0.8549, yielding with
EtMgBr 62.9% diethylcyclobutylcarbinol, b_m 85-5.6°, b_m
167-6°, 1.4667, 0.9001, dehydrated as above to an olefin
mixture, b_m 146-65°, 1.4544, 0.8575, and hydrogenated as
above to 3-cyclobutylpentane, b_m 148.7°, 1.4308, 0.7816.

G. M. Kozlovskii

1121

6
4E47
4E2C(?)
4E3d
2 May

NAKHAPETYAN, L.A.; NESMEYANOVA, O.A.; SAFONOVA, I.L.; LOZA, G.V.; OVODOVA,
V.A.; LIKINA, M.Yu.

Preparation of trimethylene chlorobromide. Zhur. prikl. khim.
37 no.8:1808-1811 Ag '64. (MIRA 17:11)

ALEKSANYAN, V.T.; STERNIN, Kh.Ye.; LUKINA, M.Ku.; NAKHAPETYAN, L.A.

Raman spectra of various monoalkylcyclobutanes and cyclobutyl
bromide. Fiz. sbor. no.3:68-71 '57. (MIRA 11:8)

1. Komissiya po spektroskopii AN SSSR i Institut organicheskoy
khimii im. N.D. Zelinskogo AN SSSR.
(Cyclobutane--Spectra)

ALEKSANYAN, V.T.; STERIN, Kh.Ye.; LUKINA, M.Yu.; HAKHAPETIAN, I.A.

Raman spectra of various monoalkylcyclobutanes and cyclobutyl
bromide. Fiz. sbor. no.3:68-71 '57. (MIRA 11:8)

1. Komissiya po spektroskopii AN SSSR i Institut organicheskoy
khimii im. N.D. Zelinskogo AN SSSR.
(Cyclobutane—Spectra)

5(3)

SOV/20-127-3-24/71

AUTHORS:

Lukina, M. Yu., Nakhapetyan, L. A., Ovodova, V. A., Kazanskiy, B. A., Academician

TITLE:

Catalytic Isomerization of Hydrocarbons in the Cyclobutane Series

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 567 - 570 (USSR)

ABSTRACT:

Up to now only few papers have existed on the subject mentioned in the title (Refs 1-6). The mentioned papers neither give an exhausting idea of the conditions necessary for the isomerization of a cycle with 4 links, nor of the reaction products. This fact made the authors start a systematic investigation of the mentioned field. They investigated the hydrocarbons mentioned in the title, in the presence of catalysts which usually isomerize a cycle with 3 links, under conditions which allow a comparison of the resistances of carbon cycles with 3 and 4 links. Already in former investigations the authors faced an interesting phenomenon: alkyl-cyclobutanes (Ref 7) in contrast to alkyl-cyclopropanes (Ref 8), experienced no isomerization with a chromatographic adsorption on silica gel, iso-propenyl-cyclobutane, however,

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Catalytic Isomerization of Hydrocarbons in the
Cyclobutane Series

SOV/20-127-3-24/71

was completely isomerized with an expansion of the cycle to 5 links (Ref 9). The behavior of alkyl-cyclobutanes thus differed already from that of an alkenyl-cyclobutane which even proved less resistant than alkyl-cyclopropanes. In this connection the authors investigated the behavior of saturated hydrocarbons: ethyl- and iso-propyl-cyclobutane, also with acid catalysts (such as silica gel), furthermore with unsaturated hydrocarbons of the same series with a different position of the double linkage in the substituent, i. e. isopropenyl-cyclobutane and isopropylidene-cyclobutane. In doing so they found that aluminosilicate can completely isomerize alkyl-cyclopropane at 50° (Ref 10), and does not cause a noticeable isomerization of iso-propyl-cyclobutane, not even at 250°. Siliceous earth which completely isomerizes alkyl-cyclopropane at 150° (Ref. 1a), does not influence alkyl-cyclobutane between 150° and 400°; only at 500° the catalyzation product obtained differed considerably from the initial hydrocarbon, as far as its constant is concerned. A fact which can also be explained by the high temperature. Thus it was

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Catalytic Isomerization of Hydrocarbons in the
Cyclobutane Series

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proved that alkyl-cyclobutanes, in contrast to alkyl-cyclopropanes are enough resistant under the conditions of isomerization. Also here the unsaturated hydrocarbons of the cyclobutane series behaved in quite a different way: isopropenyl-cyclobutane was completely isomerized in the presence of siliceous earth, already at a temperature of 200° , with an extension of its cycle to 5 links. In the Raman spectrum the hydrated isomerization product appeared as a mixture of 1,2-dimethyl-cyclopentane with traces of 1,1-dimethyl-cyclopentane. Isopropylidene-cyclobutane developed a similar isomerization product. Thus it was proved that unsaturated hydrocarbons of the cyclobutane series could easily be isomerized independently of the position of the double linkage in the substituent. They developed the same products under conditions which could not effect the alkyl-cyclobutanes. The catalysts investigated are able to cause a displacement of the double linkage (Ref 11). This is explained by the scheme. There are 1 table and 11 references, 9 of which are Soviet.

Card 3/4

Catalytic Isomerization of Hydrocarbons in the
Cyclobutane Series

SOV/20-127-3-24/71

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry imeni N. D. Ze-
linskiy of the Academy of Sciences, USSR.)

SUBMITTED: April 27, 1959

Card 4/4

86116

S/152/60/000/003/002/003
B023/B060

5.3610 2209, 1375, 1153

AUTHORS:

Dorogochinskiy, A. Z., Nakhapetyan, L. A., Lavrent'yev, V. I.,
Boykova, Ye. P., Kost, A. N., Yershov, V. V.

TITLE:

Antioxidizing Properties¹¹ of Some Pyrazoline⁷ Derivatives

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1960,
No. 3, pp. 69-71

TEXT: In the authors' opinion, the stability of motor fuels¹¹ to oxidation is a most important problem. They therefore studied the antioxidantizing properties of some pyrazoline derivatives in their capacity as inhibitors. The authors first obtained numerous pyrazolines having no substituents in position 1, and then such having different substituents in this position. The following compounds were synthesized as possible inhibitors:
1-carbamido-3-phenyl pyrazoline, 1-phenyl carbamido-3-phenyl-4-ethyl-pyrazoline, 1-thiocarbamido-3,5,5-trimethyl pyrazoline, 1-phenyl thio-carbamido-3,5,5-trimethyl pyrazoline, 1-phenyl thiocarbamido-3-methyl-5,5-pentamethylene pyrazoline, 1-phenyl thiocarbamido-3,5-diphenyl pyrazoline, 1,3,5-triphenyl pyrazoline, 3-amino-1-phenyl pyrazoline.

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Antioxidizing Properties of Some
Pyrazoline Derivatives

867:6
S/152/60/000/003/002/003
E023/BO60

Derivatives of phenyl thiocarbamides of various pyrazolines were obtained by the action of phenyl isothiocyanate upon these pyrazolines (Ref. 5). In a similar manner, the following compounds were obtained from the corresponding pyrazolines: 1-carbamido-3-phenyl pyrazoline and 1-phenyl carbamido-3-phenyl-4-ethyl pyrazoline (Ref. 2). 3-amino-1-phenyl pyrazoline was synthesized from acrylonitrile and phenyl hydrazine (Ref. 6). 1,3,5-triphenyl pyrazoline was obtained by interaction of benzal acetophenone and phenyl hydrazine (Ref. 7). The efficiency of the preparations examined was estimated by comparing their inhibiting effect with the effect of para-oxy diphenyl amine, which was taken as a standard, as well as with the effect of 2,6-ditertiary butyl-4-methyl phenol. Two samples of motor fuels A and B were taken, the properties of which are given in Table 1. Sample A was prepared by intermixing equal amounts of fresh distillate of thermoccracking and of the benzene-ligroin fraction. Sample B was prepared by intermixing the same amounts in a ratio of 30 : 70. Both samples were inhibited by various additions on the day of their preparation. The additions were allowed to dissolve in the motor fuels by being added as benzene solutions. Benzene was taken in an amount of ~ 0.1% of the fuel volume. The effect of stability of samples A and B

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Antioxidizing Properties of Some
Pyrazoline Derivatives

86146

S/152/60/000/003/002/003
B023/B060

was examined first. For this purpose the authors studied the inhibited motor fuel for its stability to oxidation by determining the induction period on the basis of ГОСТ 4039-48 (GOST 4039-48) within 6 h. The content of potential resins in the motor fuel was determined next. Results show that some pyrazoline derivative samples have a considerable inhibiting effect. The best results were yielded by the use of 1-phenyl thio-carbamido-3,5,5-trimethyl pyrazoline. In the sample inhibited with this substance, the resin formation appeared only after two months, while resins in a noninhibited sample increased with uninterrupted intensity throughout the whole storage time. There are 3 tables and 7 references: 5 Soviet, 1 US, and 1 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov) GrozNII
(Groznyy Petroleum Institute)

SUBMITTED: September 3, 1959

Card 3/3

KAZANSKIY, B.A.; LUKINA, N.Yu.; NAKHAPETYAN, L.A.; ZOTOVA, S.V.;
LOZA, G.V.; SHATENSHTYU, G.A.; OVODOVA, V.A.; UVAROV, O.V.;
SOKOLOV, N.M.; SMOL'NIKOV, V.P.

Production of high purity cyclopropane. Khim. prom. no. 6:462-
465 S '60. (MIRA 13:11)

(Cyclopropane)

NAKHAPETYAN, L.A.; SAFONOVA, I.A.; KAZANSKIY, B.A.

Reaction of isoprene with methylene iodide and a zinc-copper couple.
Izv. AN SSSR. Otd.khim.nauk no.5:902-905 My '62. (MIRA 15:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Isoprene) (Methane)

KAZANSKIY, B.A., akademik; SOBOLEV, Ye.V.; ALEKSANYAN, V.T.; NAKHAPETYAN,
L.A.; LUKINA, M. Yu.

Certain properties of spiro-[2,4]-hepta-1,3-diene. Dokl. AN SSSR
159 no.4:839-842 D '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo i Komissiya
po spektroskopii AN SSSR.

(A) L 12140-66 EWT(m) RM

ACC NR: AP6000455

SOURCE CODE: UR/0064/65/000/009/0022/0023

AUTHOR: Sokolov, N. M.; Nakhapetyan, L. A.; Fomichev, A. V.; Livshits, S. Ya.;
Chirtsov, V. I.; Kasimov, R. G.; Lukina, M. Yu.; Zhavoronkov, N. M.

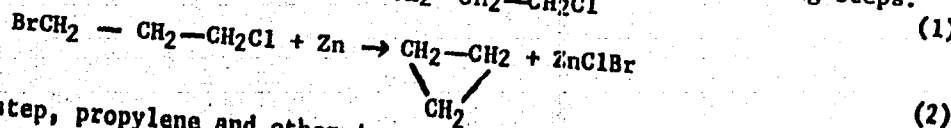
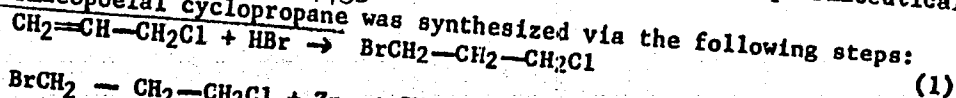
ORG: None

TITLE: Experimental industrial preparation of pharmacopoeial cyclopropane

SOURCE: Khimicheskaya promyshlennost', no. 9, 1965, 22-23

TOPIC TAGS: cyclopropane, organic synthetic process, cyclic group, pharmaceutical, propane

ABSTRACT: Pharmacopoeial cyclopropane was synthesized via the following steps:



In the third step, propylene and other impurities are removed by distillation in a packed tower. The operation of the experimental industrial assembly used in this process is described and its diagram is given. The reactor for the synthesis of cyclopropane is also illustrated. The propylene content of cyclopropane was

UDC: 661.715.4:547.512

L 12140-66
ACC NR: AP6000455

determined by gas-liquid chromatography with a thermal conductivity detector, and the cyclopropane obtained was found to meet the specified requirements. The study permitted the refinement of certain parameters of the process by which cyclopropane is produced at the various stages, and improved the flowsheet of the synthesis considerably. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 00 / ORIG REF: 005

HW
Card 2/2

SOKOLOV, N.M.; NAKHAPETIAN, L.A.; FOMICHEV, A.V.; LIVSHITS, S.Ya.;
CHIRTSOV, V.I.; KASIMOV, R.G.; LUKINA, M.Yu.; ZHAVORONKOV, N.M.

Experimental industrial production of pharmacopoeial cyclopropane.
Khim. prom. 42 no.9:662-663 S '65. (MIRA 18:9)

MIKHAYLOVICH, A.M., inzhener; NAKHAPETYAN, Ye.A., inzhener.

Testing a ground-peat vortex-type furnace. [Trudy] MVTU no.15:30-44
152. (MLRA 8:5)
(Furnaces--Testing)

NAKHAPETYAN, Ye.A., inzhener.

Aerodynamic principles of cyclone firing processes. [Trudy] MVTU
no.15:45-62 '52. (MLRA 8:5)
(Furnaces)

MAKHAPETYAN, Ye. A.

MAKHAPETYAN, Ye. A. -- "Investigation of the Aerodynamics of a Cyclone Furnace on a Cold Stand," Sub 26 Jan 53, Moscow Higher Technical School imeni Bauman. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Vechernaya Moskva, January-December 1952

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 50 (USSR) SOV/124-58-1-417

AUTHOR: Nakhapetyan, Ye. A.

TITLE: Aerodynamic Processes in a Cyclone Chamber (Cold-model Tests)
[Aerodinamicheskiye protsessy v tsiklonnoy kamere (Ispytaniya na kholodnykh modelyakh)]

PERIODICAL: V sb.: Issledovaniye kotel'no-topochnykh protsessov. Moscow, Mashgiz, 1955, pp 35-48

ABSTRACT: The author presents the results of an experimental study of the aerodynamics of the isothermal air flow in a cyclone chamber. The relationship between the aerodynamic characteristics of a cyclone and its geometric parameters is established. The influence of the inlet and the outlet configuration on the structure of the flow in the cyclone and on its hydraulic resistance is examined.

V. I. Vasil'yev

Card 1/1

NAKHAPET'YAN, Ye.A., kandidat tekhnicheskikh nauk; ISAYEV, S.I., inzhener.

On certain characteristics of a cyclone stream carrying a solid suspension. Teploenergetika 4 no.9:32-37 S '57. (MLBA 10:8)

1. Moskovskoye otdeleniye tsentral'nogo kotloturbinnogo instituta.
2. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Burners) (Combustion)

Handwritten: NADZHAROVA, Ye. A.
KALISHEVSKIY, L.L.; KATSNEL'SON, B.D.; KNORRE, G.F.; MIRONOV, B.M.; NADZHAROV,
M.A.; NADZHAROVA, Ye. A.; SAKHAROV, V.M.; KHVOSTOV, V.I.; KORIKOVSKIY,
I.K., red. izd-va; VORONIN, K.P., tekhn. red.

[Cyclone furnaces] TSiklonnye topki. Pod obshchei red. G.F. Knorre
i M.A. Nadzharova. Moskva, Gos. energ. izd-vo, 1958. 215 p.
(Furnaces, Heat treating) (MIRA 11:7)

NAKHAPETYAN, Ye. A.,

"Investigation of Isothermal Cyclonic Flow in a Model Furnace Chamber," Aerodynamic and Heat Transfer Problems in Boiler and Furnace Processes; A Collection of Articles Moscow, Gosenergoizdat, Moscow, 1958. 329 p.

Purpose: The book is intended for engineers and combustion specialists concerned with the design and operation of heating equipment and it is also for scientific workers and students of vtuzes.

NAKHAPETYAN, Ye.A., kand.tekhn.nauk; ISAYEV, S.I., inzh.

Characteristics of a turbulent flow carrying solid suspensions.
[Trudy] MVTU no.94:86-99 '58. (MIRA 12:3)
(Combustion) (Aerodynamics)

KNORRE, G.F., zasluzhennyy deyatel' i tekhniki RSFSR, doktor tekhn.nauk prof.;
NAKHAPETYAN, Ye.A., kand.tekhn.nauk. starshiy nauchnyy sotrudnik;
NADZHAROV, M.A., kand.tekhn.nauk, strshiy nauchnyy sotrudnik

Beneficial cyclone. Izobr.i rats. no.4:20-21 Ap '60.

(MIRA 13:6)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche
(for Knorre). 2. Moskovskoye otdeleniye TSentral'nogo kotloturbinnogo
instituta (for Nakhapetyan, Nadzharov).
(Furnaces)

NAKHAPETYAN, Yo. G.

NAKHAPETYAN, Yo. G. -- "Revolving-Fixing of a Mechanism of Automatic Machine Tools." Sub 2) Dec 52, Moscow Higher Technical School named Bauman. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Vechernaya Moskva, January-December 1952

NAKHAPETIAN, Y. G.

2

USSR

13423. Nakhapetian, Y. G., Study of the dynamics of Geneva mechanisms used in automatic machine tools (in Russian), *Akad. Nauk SSSR Prikl. Sci. Teor. Mash. Mekh.* 14, 53, 47-67, 1953.

Variations in driving torque and forces in Geneva mechanisms are investigated analytically, and several expressions encountered in the analysis are plotted graphically. Results are given in terms of two parameters: z , number of slots in Geneva wheel; and A , ratio of moment of inertia of driven members times square of angular velocity of driving wheel to load torque on Geneva wheel. Oscillograms obtained experimentally from strain gages show qualitative agreement with analytical results, with additional peaks due to dynamical and frictional effects not considered in analysis. Experiments show that undesirable shocks during second half of driving stroke can be reduced by braking action. It is mentioned that frictional effects can be reduced by suitable location of driving elements with relation to Geneva wheel bearings.

T. P. Goodman, USA

JP 211

NAKHAPETYAN, Ye.G.

Experimental investigation of the dynamics of maltese mechanisms
used on automatic turret lathes. [Trudy] MVTU no.38:167-180 '55.
(MLBA 9:8)

(Lathes)

NAKHAPETYAN Ye. G.

DASHCHENKO, A.I.; NAKHAPETYAN, Ye.G.

Introducing automatic control of machining operations in plants
producing in lots. Biul.tekh.-ekon.inform. no.2:85-91 '58.

(MIRA 11:4)

(Automatic control) (Factory management)

NAKHAPETIAN, Yz. G.

25(1)	PHASE I BOOK EXPLOITATION	SOV/2183
	Akademika nauk SSSR, Komissiya po tekhnologii mashinostroyeniya	
	Automatizatsiya mashinostroyeniya protsesov. t. II: Privod i upravleniye rabochimi mashinami [Automation of Machine-building Processes. Vol.2: Drives and Control Systems for Process Machinery] Moscow, Izd-vo AN SSSR, 1959. 370 p. Errata slip inserted. 5,000 copies printed.	
	Ed.: V.I. Dikushin, Academician; Ed. of Publishing House: D.M. Ioffe; Tech. Ed.: I.P. Kuz'min.	
	SUBJECT: This book is intended for engineers dealing with automation of various machine-building processes.	
	COVERAGE: This is the second volume of transactions of the second Conference on Overall Mechanization and Automation of Manufacturing Processes held September 25-29, 1956. The present volume consists of three parts, the first dealing with automation of engineering measuring methods. The subjects discussed include automatic control of dimensions of machined parts, inspection methods for automatic production lines, in-process inspection devices, application of electronics in automating linear or measuring processes, and machines for automatic inspection of bearing races. The second part deals with control drives and control systems of various elements, including application of digital computers in the control of metal-cutting machine tools, reliability of relay systems, application of gas-tube frequency converters in the control of induction motor speeds, magnetic amplifiers and their use in automatic systems, hydraulic drives, and ultrasonic vibrators. Part three deals with mechanisms of automatic machines and automatic production lines. The subjects discussed include linkages, indexing, and Geneva-wheel-type mechanisms, friction drives, automatic loading devices, diaphragm-type pneumatic drives, various auxiliary devices for automatic production lines, and methods of design and accuracy of cams. No person-alities are mentioned. There are no references.	
	NAKHAPETIAN, Yz. G. Dynamics and Type of Geneva-Wheel Mechanisms	210
	Shekhtel, E.L. Study of Indexing Mechanisms for Tables and Drums of Automatic Machines	222
	Cherkudinov, S.A. Linkage Mechanisms of Heavy-duty Drawing Presses	233
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	Preys, V.F. Some Problems in the Theory of Loading and Positioning Devices	278
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NAKITA PETYAN, YE. G.

ISSN 1304 EXPLOITATION SOV/530

Vsesoyuznoye soveshchaniye po obshchym problemam teorii mashin i mekhanizmov. 2d, Moscow, 1958

Stannika mashin; sbornik statey (Dynamics of Machines; Collection of Articles) Moscow: Mashiz, 1960. 240 p. (Itai-tryd) Extra slip inserted. 3,000 copies printed.

Sponsoring Agency: Institut mashinovedeniya Akademii nauk SSSR.

Editorial Board: I. I. Artobolevsky (Resp. Ed.) Academician, S. I. Artobolevsky, Doctor of Technical Sciences, Professor, D. G. Baranov, Doctor of Technical Sciences, Professor, A. P. Bessonov, Candidate of Technical Sciences, V. A. Gavrilenko, Doctor of Technical Sciences, Professor, A. A. Gorkovskiy, Doctor of Technical Sciences, N. I. Lebedev, Doctor of Technical Sciences, Professor, and L. N. Maslov, Doctor of Technical Sciences, Professor.

Ed. I. V. Bessonov, Candidate of Technical Sciences; Managing Ed. for General Technical Literature and Literature on Transport Machine Building (Mashiz).

A. P. Kozlov, Engineer; Tech. Ed.: B. I. Kozel.

FOREWORD: This collection of articles is intended for engineers, designers, workers at scientific research institutes, and instructors at schools of higher technical education.

CONTENTS: This collection consists of reports presented at the All-Union Conference on Problems in the Theory of Machines and Mechanisms held in Moscow in 1958. The reports discuss several problems of the dynamic design of complex mechanical systems. No personalities are mentioned. References accompany most of the articles.

Artobolevsky, S. I., Corresponding Member of the Academy of Sciences, USSR, and Ya. M. Raskin, Candidate of Technical Sciences. Investigation of a Vibratory-Impact Mechanism 101

Bessonov, V. O., Doctor of Technical Sciences, Professor. Some Problems in the Dynamics of Machines With a Varying Load 117

Evsteev, A. I., Doctor of Technical Sciences, Professor. Theoretical-Statistical Method of Describing the Process of Operation of Machines 128

Malyukhin, A. P., Doctor of Technical Sciences, Professor. Stochastic Analysis of Mechanisms Which Contain Statically Indeterminate Units 140

Makharadze, Ya. O., Candidate of Technical Sciences. The Problem of Selecting a Mechanism With a Geneva (Intermittent) Movement 152

Makharadze, Ya. O., Doctor of Technical Sciences. Problems in the Dynamics of Marine Engines 157

Palay, K. R., Engineer. Dynamics of the Main Drive of a Milling Machine 166

Artobolevsky, I. V., Doctor of Technical Sciences, Professor. Calculation of Some Types of Cam and Push-Rod Mechanisms With Hydraulic and Elastic Connections 186

Pust, L., Candidate of Technical Sciences (Prague). Effect of the Nonlinear Characteristics of Springs on the Vibration of Machine Foundations 203

Malyukhin, A. P., Candidate of Technical Sciences. Advances and Present State of the Experimental Dynamics of Machines 215

Artobolevsky, I. V., Candidate of Technical Sciences. Irregular Processes in a Stochastically Oscillating Electro-mechanical System and Its Simulation 222

Shoykhet, L. A., Candidate of Technical Sciences. Notions of a Pendulum Under the Effect of Random-Type Vibrations 235

AVAILABLE: Library of Congress (TJ181.V8 1958)

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AC/ma/pe 1-5-61

NAKHAPETYAN, Yevgeniy Grigor'yevich; KLENNIKOV, V.M., red. izd-va; VOLKOVA,
V.V., tekhn. red.

[Road to automatic plants; automation of technological processes in
machine manufacture] Put' k zavodam-avtomatam; avtomatizatsiya tekhnologicheskikh protsessov v mashinostroenii. Moskva, Izd-vo Akad. nauk SSSR, 1961. 126 p. (MIRA 14:10)
(Machinery industry) (Automation)

DASHCHENKO, A.I.; NAKHAPETYAN, Ya.G.; ACHERKAN, N.S., doktor
tekhn. nauk, otv. red.; RZHEVSKIY, V.F., red.izd-va;
GUSEVA, A.P., tekhn. red.

[Design and investigation of basic units of automatic
lines and machine-tools] Proektirovanie, raschet i is-
sledovanie osnovnykh uzlov avtomaticheskikh liniy i
agregatnykh stankov. Moskva, Izd-vo "Nauka," 1964. 235 p.
(MIRA 17:3)

BORODIN, B.Ye. (Moskva); NAKHAPETIAN, Ye.G. (Moskva)

Investigating the dynamics of a cam-mangle mechanism of an
automatic machine. Mashinovedenie no.1:36-43 '65.

(MIRA 18:5)

NAKHAPETYAN, Ye.G.; KLEBANOVA, G.N.

Investigating heavily-loaded turning gears with Geneva mechanisms
of external and internal engagement. Teor. mash. i mekh. no.17/108:
25-39 '65. (MIRA 18:7)

BORODIN, B.Ye. (Moskva); NAKHAPETYAN, Yo.G. (Moskva)

Effect of the gap in a cam groove on the dynamics of a
cam and pin turning mechanism. Mashinovedenie no.6:15-23
'65. (MIRA 18:11)

VOLOSHIN, N.Ye., inzh.; NAKHATOVICH, A.A., inzh.; PANASOVSKIY, I.P., inzh.

Need for modernization of the LBS-4 boring machine. Ugol' 37
no.11:64 N '62. (MIRA 15:10)

1. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoy promyshlennosti pri shakhte No.5/6 im. Kalinina (for Voloshin). 2. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoy promyshlennosti pri shakhte No.17-17-bis (for Nakhatovich). 3. Shakhta No.5/6 im. Kalinina (for Panasovskiy).

(Rock drills) (Mine gases)

TROITSKIY, V.N.; NAKHAYEV, N.Ye.; SMORODIN, A.I.; BEREMBYUM, G.B.

Causes for the breakdown of air preheaters. Metallurg 8 no.8:
11-12 Ag '63. (MIRA 16:10)

1. Novolipetskiy metallurgicheskiy zavod.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136010

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136010

NAKHIBASHEVA, P. M.

Makhachkala - Medical Statistics

Data on trauma in children in Makhachkala in 1946-48. *Pediatrics* no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195²/₃, Uncl.

NAKhibasheva, P. M.

Nakhibasheva, P. M.

"Aspects of the Course of Scarlatina in Children with Chronic Tonsillitis."
Order of Labor Red Banner Inst of Pediatrics, Acad Med Sci USSR. Moscow,
1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

LEBEDINSKIY, A.V.; MAKHIL'NITSKAYA, Z.N.; SMIRNOVA, N.P.

Participation of the autonomic nervous system in the organism's
reaction to ionizing radiation. Med.rad. 4 no.7:3-9 J1 '59.
(MIRA 12:9)

(AUTONOMIC NERVOUS SYSTEM, physiol.)
(RADIATION EFFECTS)

LEBEDINSKIY, Andrey Vladimirovich; NAKHIL'NITSEAYA, Zinaida Nikolayevna;
ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Influence of ionizing radiation on the nervous system] Vliianie
ioniziruiushchikh izluchenii na nervnuu sistemu. Moskva, Izd-vo
Gos.kom-ty Soveta Ministrov SSSR po ispol'zovaniyu atomnoi energii,
1960. 186 p. (MIRA 13:12)

(RADIATION--PHYSIOLOGICAL EFFECT)
(NERVOUS SYSTEM)

NAKHIL'NITSKAYA, Z.N.

Functional state of the adrenal cortex in acute radiation injury.
Med. rad. 5 no.8:41-46 '60. (MIRA 13:12)
(RADIATION SICKNESS) (ADRENAL CORTEX)

KISELEV, P.N.; NAKHIL'NITSKAYA, Z.N.

Some results of a study of the effect of ionizing radiations on
tissue permeability. Med. rad. 5 no.9:73-82 S '60. (MIRA 13:12)
(TISSUES--PERMEABILITY) (RADIATION--PHYSIOLOGICAL EFFECT)

LEBEDINSKIY, A.V.; KLIMOVSKAYA, L.D.; NAKHIL'NITSKAYA, Z.N.;
SEDOV, V.V.; SMIRNOVA, N.P.

Effect of Y^{90} on the nervous system in connection with the
possibility of its use in experiments and in neurosurgical practice.
Vop. neirokhir 24 no. 2:9-12 Mr-Sp '60. (MIRA 14:1)
(YTTRIUM--ISOTOPES) (BRAIN)

NAKHIL'NITSKAYA, Z.N.

Role of the hypothalamic-hypophyseal system in the pathogenesis
of disorders of vascular permeability in irradiated animals.
Radiobiologiya 2 no.1:62-68 Ja '62 (MIRA 18:1)

LEBEDINSKIY, A.V.; MASTRYUKOVA, V.M.; NAKHIL'NITSKAYA, Z.N.; STRZHIZHOVSKIY, A.D.

Effect of ionizing radiation on the state of regenerative processes
in the organism. Radiobiologiya 4 no.5:693-700 '64.

(MIRA 18:4)

NAKHIL'NITSKAYA, Z.N.

Ion permeability of irradiated erythrocytes. Radiobiologiya 5
no.1:25-31 '65. (MIRA 18:3)

1. Institut biologicheskoy fiziki AN Ministerstva zdravookhrane-
niya SSSR, Moskva.

SUPPLY: Rat, mouse, rabbit, tri-
peripheral blood, etc. of tissues, organs, etc.

TOPIC TAGS: rat, mouse, rabbit, tri-
peripheral blood, etc. of tissues, organs, etc.

Results of tri-
are reported. Animal survival studies of tri-
are reported. Animal survival studies of tri-

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136010

ACCESSION NR: AP7010368

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136010

Control of the quality of machine steels according to the fracture structure. A. M. Nakhimov, Zvezditskaya Lab. 4, 194 2021 (1965). A relationship between the character of the fracture texture and phys. and chem. properties of specimens of Cr, Cr-V and Cr-V-Mo steels was studied and the results are compared. Chas. Blauc

NAKHIMOV

USSR/ Engineering - Metal working

Card 1/1 Pub. 128 - 23/35

Authors : Nakhimov, A. M., Engineer

Title : Methods of eliminating cracks which form during cementation of parts made of chrome-nickel steel

Periodical : Vest. mash. 35/3, 74 - 75, Mar 1955

Abstract : An account is given of experiments conducted with chrome-nickel steel of the standard 12KhN4A (12XH4A), which is particularly susceptible to cracking during cementation. By changing the method and rate of heating and cooling and the kind of carbonizing agent used, variations in the amount of rejects varied from 40% to zero. Illustration; graph.

Institution :

Submitted :

NAKHIMOV, A.M., inzhener.

Axle billet rejection necessitated by face-plate cracks. Vest. mash.
35 no.9:68-69 S '55. (Axles) (MLRA 9:1)

SOV/137-58-12-24446

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, N° 12, p 71 (USSR)

AUTHORS: Baram, A. N., Nakhimov, A. M., Kozin, M. D.

TITLE: The Rolling of Flat and Round Spring Steel at the Kirov Plant (Prokatka resornoy i pruzhinnoy stali na Kirovskom zavode)

PERIODICAL: Tr. Mezhdvuz. nauchno-tekhn. konferentsii na temu "Sovrem. dostizh. prokatn. proiz-vd". Leningrad, 1958, pp 151-154

ABSTRACT: A new pass grooving for grooved flat spring steel permitting precise positioning of the projection and depression is developed and introduced. An initial 11x88 strip is reeled from a square 60x60 mm billet in 3 open passes (P); whereupon it is sent to an edging pass that brings the side edges to proper dimensions. Next come a closed P and an edging and finishing open P. Since the strip enters the closed P with a width determined in the first edging P, the projection and the depression are formed to sufficient accuracy. In order to produce spring of round section without scratches, laps, and seams, the billet has to be conditioned over its entire surface; hence prior to the rolling of round spring steel the leader and finishing rolls should be changed and roller guides brought into position. The

Card 1/2

The Rolling of Flat and Round Spring Steel at the Kirov Plant (cont.)

SOV-137-58-12-24446

system of immersing the billets in the furnace is changed so that the springs produced will be decarburized to minimum depth. They are now emplaced not in 3 layers but in one, and this reduces by two-thirds the soaking time of the metal in the furnace.

Ya. G.

Card 2/2

LANTSBERG, Yuliy Saulovich; RUMNEVSKIY, Petr Vyacheslavovich;
NAKHIMOV, Boris Naumovich; SHAFRAN, V.I., red.

[Lines for the regulation of traffic on city streets]
Linii regulirovaniia dvizheniia na gorodskikh ulitsakh.
Moskva, Stroiizdat, 1964. 77 p. (MIRA 17:9)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
NAKHIMOV, D.M.		9	
Ca			
Detection of residual tensile stresses in quenched steel. D. M. Nakhimov. <i>Zavodskaya Lab.</i> 13, 825-32(1947).— Annular specimens were prep'd. from quenched and tempered steels (49-51 Rockwell "C") contg. (I) C 0.29, Ni 1.29, Cr 2.51, Mo 0.53, Si 0.32, Mn 0.41, S 0.008, and P trace; and (II) C 0.33, Ni 1.39, Cr 2.80, Mo 0.49, Si 0.38, Mn 0.57, S 0.01, and P 0.008%. The specimens, 91 mm. inside diam., 105 mm. outside, and 10 mm. thick, were cut on one side and a wedge inserted to produce the desired stress. The stressed specimens were then placed in 0.1-20% H₂SO₄ at room temp. until fracture occurred. For steel II the time required for fracturing varied from an av. of 23 min. at 85 kg. per sq. mm. to 20 hrs. at 40 kg./sq. mm. At 30 kg./sq. mm. the specimens did not fracture within 4 days. The acid concn. had little effect on time required for fracturing. Steel I required 4-60 times as long to fracture as steel II. When exposed to air contg. 0.005 g./l. SO₂, a specimen of II stressed to 85.9 kg./sq. mm. broke in 20 min. The extent of residual surface stresses in quenched steels was det'd. by immersing specimens in dil. H₂SO₄. H. W. Rathmann			
ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION			
62			

ALPHABET AND NUMERICAL INDEX																																																																																																					
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NAKHIMOV, D. M. 13 Investigation of the Relaxation Process in Tempered Steel by Use of a Ring-Shaped Test Specimen. (In Russian.) D. M. Nakhimov. <i>Zavodskaya Laboratoriya</i> (Factory Laboratory), v. 13, Oct. 1947, p. 1222-1227. In the method described, a wedge is used to expand a split ring. Results indicate that the relaxation process is of much higher intensity in steels of low structural stability. Test data are charted and tabulated. <i>Evaluation B-75777</i> ASB-35A METALLURGICAL LITERATURE CLASSIFICATION																																																																																																					
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NAKHIMOV D. M.

TA 10T74

USSR/Steel - Temper Brittleness
Metallurgy

Apr 1947

"Strain and Cracks in Steel During Tempering,"
D. M. Nakhimov, 12 pp

"Vestnik Mashino" Vol XXVII, No 4

General discussion of the effects of thermal
pressures, structural pressures and total pressures.
Fully illustrated with photographs.

10T74

NAKHIMOV, L. M.

1. N. V. KALAKUTSKI, A. YA. CHERNYAK, D. M. NAKHIMOV
2. USSR (600)
4. A. Ia. Chernyak
7. "Russian scientist metallographer. Reviewed by Kh. I. Muratov, I. S. Kosov. Vest. mash. 32 no. 11. 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

NAKHIMOV, D. M. and AMAYEV, A. D.

"Finding the Yield Point by the Compression Method Using 'Rockwell' Instrument,"
page 120 of the book "Problems on Strength and Deformation of Metals and Alloys,"
released by Moscow Engineering-Physics Inst., Mashgiz, 1954

D-342613, 24 Oct 55

NAKHIMOV, D.M., kandidat tekhnicheskikh nauk, dotsent; AMAYEV, A.D.,
inzhener.

Determination of the yield point by the compression method with
the Rockwell tester. Sbor.nauch.rab.MIFI no.8:120-124 '54.(MLRA 9:3)
(Metals--Testing)

FRANK J BOOK RECEPTION
807/258

Moscow, Don machinobuilding enterprise in P.R. Machinebuilding
 Governmental railway 1 1/2 turntable shops (Contemporary Alliance and Their
 Best Treatment) Moscow, Machine, 1978. 359 p. 12,000 copies printed.
 Additional Publishing Agency? Oodhesive to representative political circles 1
 Machinebuilding family MOTO.

Ed. (title page): Yu. A. Geller, Doctor of Technical Sciences; Ed. (inside book): V. V. Rukhovich, Engineer; Tech. Ed.: B. I. Kodak; Managing Ed.: Literature on Metal Forming and Tool Making; A. D. Rozental's, Engineer.

REPORTER: The book is by J.D. Bernal, M.S., Engineer.

the book is intended for engineering and technical personnel of heat-treatment shops and test laboratories of machine-building plants.

CONTENTS. This collection of 28 articles, compiled by 35 authors, also to acquaint the reader with modern practice in the heat treatment of steels. The authors are primarily concerned with the development of various types of structural, tool, and heat-resistant steels and with the use of their alloying elements. Material-handling equipment is described at some length. The treatment of steels, particularly those of titanium, also comes within the scope of the collection. The book is thoroughly diagrammatic, and a good deal of the material is shown in graphical form. Among the problems dealt with are the minimization of distortions, the introduction of the automatic control of heat-treating equipment, together with fully mechanized tool manufacture, and the volumetric properties of different alloying elements. There are numerous tables and drawings. Bibliographic listings placed at the end of chapters are predominantly in Russian. The articles comprising this collection are reports delivered at a conference held in the Scientific and Technical Propaganda House, Leningrad, March 1956.

REMARKS: THIS IS A VERY INTERESTING

104	207	216	242	294	295
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169	272	281	307	359	360
170	273	282	308	360	361

AUTHOR: Nakhimov, D.M., Candidate of Technical Sciences SOV/129-59-3-1/16
TITLE: Transformations of Elastic Deformations Into Residual
in the Case of Structural Transformations (Perekhod
uprugy deformatsii v ostatochnuyu pri strukturnykh
prevrashcheniyakh)
PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,
1959, Nr 3, pp 2 - 6 (USSR)
ABSTRACT: S.T. Konobeyevskiy (Ref 1) and I.A. Oding (Refs 2-5)
found a long time ago that plastic deformation can take
place as a result of individual displacements of atoms.
The displacements are chaotic as regards direction.
However, in the presence of a force field, certain pref-
erential directions will emerge due to a decrease in the
thermodynamic potential, for instance, rising diffusion.
Diffusion plasticity increases with the emergence of
factors which bring about a mobility of the atoms - an
increase in the temperature, an increase in the dis-
tortions of the crystal lattice. Particularly, diffusion
and density increase with an increasing dispersion of the
structure and decreasing grain size. The plasticity of
2-phase alloys increases sharply if an interchange of atoms

Card1/4

SOV/129-59-3-1/16
 Transformations of Elastic Deformations Into Residual in the Case
 of Structural Transformations

occurs between the phases. However, it can be stated that any structural transformations in a system of one of several phases are accompanied by a transformation of elastic deformations into residual ones. If a work-hardened specimen is subjected to compression in a press provided with a limiting device and simultaneously heated to the recrystallisation temperature a structure with equiaxial grains and a regular crystal lattice is obtained. This means that elastic deformation ceases and becomes transformed into residual deformation. If the specimen is heated below its recrystallisation temperature, it will only partially recover its regular crystal lattice, and the elastic deformation will thus partly be transformed into residual deformation. A similar transformation takes place during tempering of hardened steel. In Figure 1, the results are graphed of the study of the relaxation process during tempering of loaded ring-shaped specimens (with dimensions as shown in the sketch, Table 2), made of Cr-Ni-Mo structural steels at various

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SOV/129-59-3-1/16
Transformations of Elastic Deformations Into Residual in the Case
of Structural Transformations

temperatures. The specimens contained a notch under which the wedge was fitted for inducing the desired stresses (Figure 2). The magnitude of the stresses was calculated from the formula of the bending of beams based on the Castigliano theorem. On the basis of the obtained results the following conclusions are arrived at:

- 1) Residual deformation in metals and alloys can be produced by Type I and Type II plastic deformations. In the first case there will be displacements of large groups of atoms whilst in the second case displacement of individual atoms takes place.
- 2) Type II plasticity is intensified by factors which bring about an increase in the mobility of the atoms (an increase in the temperature, in the degree of the metastability of the structure and also an increase in the loading duration).
- 3) Type II plasticity is brought about as a result of diffusion of atoms and also during structural diffusion and diffusion-less transformations.

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of Structural Transformations

4) Clamping of the components during transformation makes it possible to straighten them in spite of the higher hardness of the metal. Particularly, warping can be combated by clamping the hardened components during tempering and also during the martensitic transformation. There are 2 figures, 2 tables and 2 Soviet references.

Card 4/4

25731

S/123/61/000/012/015/042

A004/A101

1.1710

AUTHOR:

Nakhimov, D. N. ^M

TITLE:

Cracks originating during the hardening of steel and measures to prevent them

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 12, 1961, 81-82, abstract 12B582 (V sb. "Metallovedeniye i term. obrabotka metallov". [Tr. Sektsii metalloved. i term. obrabotki metallov. Tsentr. pravl. Nauchno-tekhn. o-va mashinostroit. prom-sti, no. 2]. Moscow, 1960, 118-134)

TEXT:

The origination of cracks in parts during hardening is determined by the stress field and by the properties of the given steel grade. The author presents the characteristics of the stress field during hardening, sensitivity of the steel to cracks and origination conditions of hardening cracks. The following measures to prevent cracks during the hardening of steel parts, forming on the part surface under the effect of residual tensile stresses whose magnitude may be less than the tensile strength of the given steel (so that the destruction takes often place some time after the termination of the cooling process), are

Card 1/2

25731

S/123/61/000/012/015/042

A004/A101

Cracks originating during the hardening ...

suggested: reducing residual stresses during hardening, producing compression stresses in the surface layer, cutting down the time interval between hardening and tempering, and changing the surface layer properties. There are 15 figures and 22 references.

N. Il'ina

[Abstracter's note: Complete translation]

Card 2/2

NAKHIMOV, P. S. Admiral

MAZUNIN, N. F.

Admiral P. S. Nakhimov. Moskva, Voenmorizdat, 1952. 48 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

ACC NR: AP6036155

(A)

SOURCE CODE: UR/0018/66/000/011/0116/0116

AUTHOR: Nakhimovich, A. (Major)

ORG: None

TITLE: Adapter for disengaging the rear ejector

SOURCE: Voyenny vestnik, no. 11, 1966, 116

TOPIC TAGS: ordnance, ground weapon, antiaircraft weapon, weapon auxiliary equipment, weapon component, gunnery training, military personnel, military training

ABSTRACT: Clearing a 57-mm antiaircraft gun requires, among other operations, raising the edge of the ejector flap with the fingertips and turning the disengager. The adapter suggested is designed to shorten the time required to perform these operations and overcome the difficulty involved when the person clearing the gun must wear gloves because of weather conditions. The adapter, consisting of four bronze grooved rollers, a steel wire and a flat steel spring, is simple to install, as is operation. The gunner need only turn the disengager and the wire, anchored atop the magazine, raises the ejector. Orig. art. has: 1 figure.

SUB CODE: 15¹⁹/SUBM DATE: None

Card 1/1

NAKHIMOVICH, D.Ya.

Take into consideration in reissuing safety regulations for coal mines.
Bezop.truda v prom. 6 no.3:34 Mr '62. (MIRA 15:3)

1. Uchastkovyy gornotekhnicheskii inspektor Krasnogvardeyskoy
rayonnoy gornotekhnicheskoy inspeksii Upravleniya Donetskogo
okruga Gosgortekhnadzora USSR.

(Coal mines and mining--Safety regulations)

BUDNIK, N.M., kand. tekhn. nauk; SHEVCHENKO, A.A., inzh.; DYURGEROV, N.G.;
SAPOV, P.M., inzh.; BARILOV, O.A.; NAKHIMOVICH, E.I.

Reconditioning shafts by build-up welding with a short arc.
Trakt. i sel'khoz mash. no.9:43 S '64.

(MIRA 17:11)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashino-
stroyeniya (for Dyurgerov). 2. Rostovskiy zavod sel'skokhozyayst-
vennogo mashinostroyeniya (for Nakhimovich).

REYNOV, Mikhail Naumovich; BREGMAN, Vladimir Il'ich; MOSKALENKO,
Vladimir Mikhaylovich; NAKHIMOVICH, Eduard Mikhaylovich;
PETROV, Yevgeniy Yuvenal'yevich; MOSHENSKIY, Naum L'vovich;
AKSENOV, Yevgeniy Mikhaylovich; ROMANOV, B.N., inzh.,
retsenzent; SHAKHNOVA, V.M., red.; FRUMKIN, P.S., tekhn.red.

[Shipbuilding calculations on electronic computers] Sudo-
stroitel'nye raschety na elektronnykh vychislitel'nykh ma-
shinakh. [By] M.N.Reinov i dr. Leningrad, "Sudostroenie,"
1964. 169 p. (MIRA 17:3)

ACC NR: AP7001450

(N)

SOURCE CODE: UR/0413/66/000/021/0186/6186

INVENTORS: Zolkin, A. V.; Makhimovich, I. Ye.; Frolov, V. M.; Krugov, V. S

ORG: none

TITLE: A shock-absorbing device. Class 47, No. 188225 [announced by Central Scientific Research, Design, and Construction Institute of Mechanization and Power Engineering of the Forest Industry (Tsentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut mekhanizatsii i energetiki lesnoy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 186

TOPIC TAGS: shock absorber, hydraulic device, hydraulic equipment

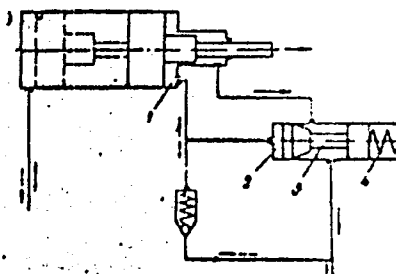
ABSTRACT: This Author Certificate presents a shock absorbing device consisting of a two-stage hydraulic cylinder with a shock absorbing chamber and an axial throttle. The throttling chamber of the latter is connected with the second stage of the hydraulic cylinder (see Fig. 1). To change automatically the hydraulic resistance in respect to the dynamic load on the shock absorber, the shock absorbing chamber is connected to the fore-valve chamber of the throttle. The throttle valve is spring-loaded with a calibrated spring.

Card 1/2

UDC: 621-752.2

ACC NR: AP7001450

Fig. 1. 1 - shock absorbing chamber;
2 - throttle chamber; 3 - throttle;
4 - spring



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 10Aug65

Card 2/2

NAKHIMOVICH, N. M.

Mbr., Physico-Technical Inst., Dept Physico-Math. and Chem. Sci.,

Ukr. Acad. Sci., -1939-41-.

"Influence of the Magnetic Field on the Electric Resistance of Zinc and Cadmium Monocrystals at Low Temperatures;" I. "Transverse Effect," Zhur. Eksper. i Teoret. Fiz., 9, No. 10, 1939;" II. "Longitudinal Effect," ibid,, "Electrical Resistance of Single Crystals of Zinc and Cadmium in a Magnetic Field at Low Temperatures," Dok AN, 24, No. 9, 1939; "Anomalous Variation of the Electric Conductivity of Zinc with the Strength of Magnetic Fields," Zhur. Eksper. i Teoret. Fiz., 12, Nos. 11-12, 1942.

NAKHIMOVSKAYA, A.; ZAPTAYSKAYA, D.

Ruled surfaces in Lobachevskii's space. Uch.zap.BGU no.32:109-114
(MIRA 11:12)

! 57.

(Surfaces, Ruled)

GUSAK, Aleksey Adamovich; NAKHIMOVSKAYA, Anna Natanovna; RYABUSHKO,
Anton Petrovich; TUTAYEV, Leonid Kondrat'yevich, dots.;
FEDENKO, Anatoliy Semenovich; VEREVKINA, N.M., red.;
KISLYAKOVA, M.N., tekhn. red.

[Problems in differential geometry] Sbornik zadach po dif-
ferentsial'noi geometrii. Minsk, Izd-vo M-va vysshego, sred-
nego spetsial'nogo i professional'nogo obrazovaniia BSSR,
1963. 106 p. (MIRA 16:10)
(Geometry, Differential—Problems, exercises, etc.)

GURSKIY, Yevgeniy Ivanovich; YERSHOVA, Vera Vasil'yevna; IVANOVA, I.L.
retsenzent; KIR'YANOVA, V.M., retsenzent; NAKHIMOVSKAYA, A.N.,
retsenzent; KOLOBOV, A.M., retsenzent; CHERKAS, L.A.,
retsenzent; SHERDYUKOVA, S.I., red.

[Fundamentals of linear algebra and analytic geometry] Osnovy
lineinoy algebry i analiticheskaya geometriya. Minsk, Vys-
shaya shkola, 1965. 262 p. (MIRA 18:9)

NAKHIMOVSKAYA, M.

NAKHIMOVSKAYA, M., NOVOGRUDSKIY, D. M., BEREZOVA, E. F., and PERVIAKOVA, M. "The Influence of Bacterization of Flax Seed on the Susceptibility of Seedlings to Infection with Parasitic Fungi," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 14, no. 6, 1937, pp. 385-388. 511 P444

SO: SIRA SI - 90-53, 15 December 1963

CA

PRELATES AND PROPERTIES INDEX

Synthesis of growth substances of the "bios" type by soil bacteria. M. I. Nakhimovskaya. *Microbiology* (U. S. S. R.) 10, 688-700(1941); *Chem. Zentr.* 1942, II, 2136.—*Acetobacter chroococcum*, *A. vinelandii*, *A. agile* and *A. spez.* can synthesize "bios" and vitamin B₁₂. Root nodule bacteria (18 strains) and ammonifiers (*B. subtilis*, *B. mesentericus*, *B. megatherium*, etc.) do not have this ability. Strains of *Pseudomonas fluorescens* were found with and without synthesizing ability. T. Laanes

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA 11c <i>Pseudomonas aurantiaca</i>, new species. M. I. Nakhimovskaya (Inst. of Microbiology, Moscow). <i>Mikrobiologiya</i> 17, 58-65(1948).—A new <i>Pseudomonas</i> species forms 2 pigments, green (I) and orange-yellow (II). Though sol. in water, AmOH, and EtOH, II is insol. in Et₂O, acetone, CHCl₃, and gasoline. Cultures from single cells form both I and II, but gradually develop a variant capable of forming I but not II. Agglutination tests with rabbit serum confirm sep. identity of this as against other <i>Pseudomonas</i> species. The name <i>Ps. aurantiaca</i> is proposed. Julian F. Smith																			
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

USSR/Medicine - Antibiotics

May/Jun 52 .

"Bacteria of the Bacillus Mesentericus Group Which Act as Antagonists of Actinomycetaceae," L. I. Yarmolenko, M. I. Nakhimovskaya, First Moscow Order of Lenin Med Inst

"Mikrobiologiya" Vol 21, No 3, pp 300-302

Authors find that a strain isolated from the Bacillus mesentericus group acts as an antagonist of various members of actinomycetaceae. State that this strain acts bacteriostatically on the actinomycetaceae, depresses the formation

231T18

of aerial mycelium and also intensifies formation of pigment. The antagonist is created by the formation of substances which possess antiactinomycetic characteristics.

231T18

NAKHIMOVSKAYA, M. I.

US&R / Microbiology. Antibiosis and Symbiosis.
Antibiotics.

F-2

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76678.

Author : Nakhimovskaya, M. I.; Ostrovskaya, N. N.; Bukrin-
skaya, A. G.

Inst : Not given.

Title : Effect of Penicillin on Several Actinomyces.

Orig Pub: Mikrobiologiya, 1957, 26, No 1, 87-91.

Abstract: The depressing effect of penicillin (1) on 6 strains of actinomyces inoculated in BPM appeared only during high concentrations - not less than 50 units per 1 ml - and was expressed either by a delay in the onset of growth or by an absence of growth. One actinomyces is sensitive to 50-60 units of 1 per 1 ml, while 500-600 units of 1 per 1 ml depressed all actinomyces, with the exclusion

Card 1/2

13

NAKHIMOVSKAYA, M.I., OSTROVSKAYA, N.N., YARMOLENKO, L.I., IVANITSKAYA, L.P.

Simple method of increasing the antibiotic activity of actinomycetes
in surface cultivation [with summary in English]. Mikrobiologiya
27 no.3:387-389 My-Je '58 (MIRA 11:9)

1. Kafedra mikrobiologii I Moskovskogo ordena Lenina meditsinskogo
instituta im. I.M. Sechenova.

(ACTINOMYCES,
antibiotic prod., increase of productivity in surface
cultivation (Rus))
(ANTIBIOTICS,
prod. by Actinomyces, increase of productivity
in surface cultivation (Rus))

BEREZOVA, Ye.F.; NAKHIMOVSKAYA, M.I.; RYBALKINA, A.V.; RABOTNOVA, I.L.;
MESSICHEVA, M.A.

David Moiseevich Novogrudskii, 1898-1953; on the 10th
anniversary of his death. Mikrobiologiya 33 no.2:379-381
Mr-Ap '64. (MIRA 17:12)

L 24818-66 EWT(1) WW SOURCE CODE: UR/0413/66/000/003/0070/0070
ACC NR: AP6007691 (A) 42
B

AUTHORS: Marinchenko, V. S.; Nakhimovskiy, A. I.

ORG: none

TITLE: Device for dispensing a gas into vacuum chambers. Class 42, No. 178515
[announced by Riga Instrument Manufacturing Plant (Rizhskiy priborostroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 70

TOPIC TAGS: ~~gas, physics laboratory instrument~~ vacuum chamber, compressible

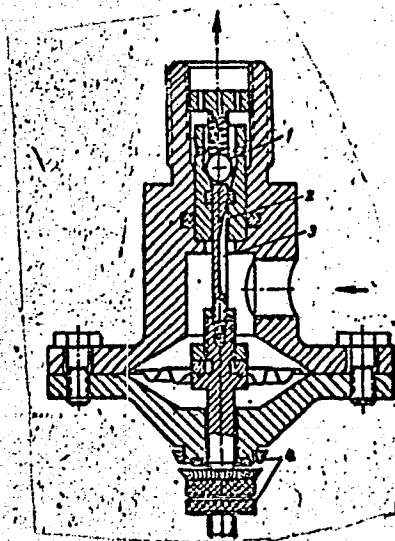
ABSTRACT: This Author Certificate presents a device for dispensing gases into vacuum chambers, consisting of a dosimeter, pneumatic membrane, manometer, and a reducing valve for compressed gas. To increase the dispensing accuracy, the dosimeter is designed in the form of a spherical spring-loaded valve and a dosing needle. The needle has a spiral groove of variable cross section, regulated by a micrometric device (see Fig. 1).

UDC: 66.028.533.59 2

Card 1/2

L 248-8-66
ACC NR: AP6007691

Fig. 1. 1 - spherical spring-loaded valve;
2 - dosing needle; 3 - groove; 4 - micro-
metric device.



Orig. art. has: 1 figure.

SUB CODE: 14/ SUBM DATE: 12Aug63

Card 2/2 87

L 05205-67

ACC NR: AT6022415

(N)

SOURCE CODE: UR/2752/65/000/068/0082/0096

AUTHOR: Nartov, I. M. (Candidate of technical sciences); Nakhimovskiy, M. A.

ORG: None

TITLE: The effect of temperature on the strength of marine steam turbines under start, stop and reverse conditions

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
Trudy, no. 68, 1965. Tekhnicheskaya ekspluatatsiya morskogo flota (Technical operation of the merchant marine), 82-96

TOPIC TAGS: marine engineering, marine engine, steam turbine, turbine rotor, thermal stress, engine control system

ABSTRACT: The thermal and strength characteristics of marine turbine rotors and housings are analyzed and experimental and theoretical studies associated with this question are discussed. The effects of stopping and starting procedures are considered with respect to possible emergency conditions. Starting temperature processes may produce emergency conditions for the following three reasons: 1. a difference in the thermal deformation of the rotor and stator; 2. impermissible deformation of rotor and stator parts; 3. excessive thermal stresses in the turbine parts. Temperature nonuniformity is the main cause for all of these conditions. Difference in the thermal deformation of rotor and stator may be due to axle clearance variation, radial

Cord 1/2

UDC: 621.125-5

NAXHIMSON, L.I.; NYMARK, F.M.; ROZENBERG, A.M.

Standardization and study on the quality of dried BCG vaccine.
Probl. tuberk., Moskva no.3:28-31 May-June 1952. (CLML 22:4)

1. Of the State Control Institute for Serums and Vaccines imeni
L. A. Tarasevich (Director -- S. I. Didenko).

NAKHIMSON-LEVENTON, L. I.

Dissertation: "Experimental Investigation of Preparations for Antituberculosis Vaccination." Dr Med Sci, Central Inst for the Advanced Training of Physicians, 14 Sep 54. (Vechernyaya Moskva, Moscow, 26 Aug 54)

SO: SUM 393, 28 Feb 1955

~~NAKHIMSON-LEVENTON~~ L. I.

NAKHIMSON, L.I.; ROZENBERG, Kh.M.

Evaluation of the activity of the BCG vaccine. Zhur.mikrobiol.epid.
i immun. no.7:102 J1 '54. (MLRA 7:9)

1. Iz Gosudarstvennogo nauchnogo kontrol'nogo instituta vaksin i
syvorotok im. Tarasevicha.
(BCG)

Abstract U-7920, 8 Mar 56

NAKHIMSON, L.I.

White mice as a suitable subject for studying the immunogenic properties of BCG vaccination. Zhur.mikrobiol.epid. i immun. no. 11:9-14 N '55. (MLRA 9:1)

1. Iz Gosudarstvennogo kontrol'nogo instituta vaktsin i syvorotok imeni L.A.Tarasevicha (dir. S.I.Didenko)
(BCG VACCINATION, experimental,
determ. of immunogenic properties of vaccine in white mice)

NAKHIMSON, L.I.
RAPOPORT, Ya.L.: NAKHIMSON, L.I. pri uchastii T.V.Migulinoy i Ye.F.
Gnevyshevoy (Moskva)

Pathology of postinjection lesions of the soft tissue; postinjection
dermo- and liponecrotic granulomas. Arkh.pat. 18 no.7:117-125 '56.
(MLRA 10:1)

1. Iz Gosudarstvennogo kontrol'nogo instituta imeni L.A.Tarasevicha
(dir. S.I.Didenko)

(INJECTIONS, complications,

dermo- & liponecrotic granulomas (Rus))

(GRANULOMA, etiology and pathogenesis,

post-injection dermo- & liponecrotic granulomas (Rus))

(SKIN DISEASES, etiology and pathogenesis,
same)

Nakhimson, L.I.
USSR / Microbiology - Microbes Pathogenic to Humans
and Animals

F-4

Abs Jour: Referat. Zh. Biol., No. 1, 1958, 745

Author : Nakhimson, L.I., Gnevysheva, E.F.

Title : Intraperitoneal Test as a Method for Determining
Residual Virulence of Weakened Tuberculous Strains

Orig Pub: Probl. tuberkuleza, 1957, No. 1, 86-90

State Control Inst of Vaccines and Sera in L A Tarasevich

Abstract: On the 14th day after intraperitoneal introduction into guinea pigs of 10 mg BCG the weight of omentum was determined; the increase corresponded to the degree of the strain's virulence. The average weight of the omentum increased after introduction of BCG strain 188 (Pasteur Institute) by 3.6 times; BCG Moro (Tuberculosis Institute, Prague) -- 2.9 times; BCG I (USSR) -- 2.5 times; BCG Paris 636 -- 2 times; BCG Iena -- 1.6 times;

Card 1/2